## BROOKHAVEN NATIONAL LABORATORY RHIC PROJECT RADIATION SAFETY COMMITTEE

To:

Distribution,

From:

A. Etkin

Date:

June 17, 1999

Subject: Radiation Safety Sub-Committee Meeting Minutes - Critical

Devices - RHIC

## Attending:-

A. Etkin

MacKay W.

S. Musolino

The RSC Sub-Committee met on June 15, 1999 and reviewed and recommended approval of the attached list of critical and reachback devices for the RHIC Ring and Injection Line.

Distribution:- RSC, R. Frankel, File, M. Harrison, D. Lowenstein, S. Ozaki, T. Robinson

## **Summary of Critical Devices**

Access to Region	Crit Dev #1	Crit Dev #2	Reach Back #1	Reach Back #2
Uup, VT	AGSEN1	AGSEN2	AGSRB1	AGSRB2
Udn, VP	psuarc4 ac psuarc4 dc	H10 septum	AGSEN1	AGSEN2
V1, D6, Muon	V1D1	V1D2	AGSEN1	AGSEN2
Wdn	psuarc8	pswarc20	AGSEN1*	AGSEN2*
X, Y	psuarc8, g12-bsx.1	pswarc20, g12-bsx.2	AGSEN1, g12-bsx.3	AGSEN2
RHIC (beam)	g12-bsx.1, psswm	g12-bsx.2, psxarc90, psyarc90	g12-bsx.3, pswarc20	psuarc8
RHIC (rf only) Zones: 3z1, 4z1	anode supplies (AC)	anode supplies (short on output)		

## Notes:

- 1. Dropping AGSEN1 will disable either
  - 1. the booster extraction magnets: BF6 and BDH2,3 or
  - 2. the four beam stops: TTB1, TTB2, LTB1, and LTB2. (The reason for this choice is to allow beam into the Booster if the extraction magnets are disabled; however, if the extraction magnets are on, then it is less stressful on the power supplies to inhibit booster injection.)
- 2. The action of AGSEN2 is identical to AGSEN1, but provides an independent, redundant path.
- 3. AGSRB1 causes all four beam stops (TTB1, TTB2, LTB1, and LTB2) to close.
- 4. AGSRB2 is similar to AGSRB1, but provides an indepenent, redundant path.
- 5. The four paths for AGSEN1, AGSEN2, AGSRB1, and AGSRB2 should be completely independent.
- 6. Reachbacks for the Wdn are currently AGSEN1 and AGSEN2, but a change to psuarc4 and the H10 septum has been authorized to be implemented at a future date.

Mangled by <u>Waldo MacKay (waldo@bnl.gov).</u> Last update: Tuesday, June 15, 1999 16:28:36